

ABSTRACT OF THE DISCLOSURE

The invention provides compositions comprising formula 1 steroids, e.g., 16 $\alpha$ -  
5 bromo-3 $\beta$ -hydroxy-5 $\alpha$ -androstan-17-one hemihydrate and one or more excipients,  
including compositions that comprise a liquid formulation comprising less than about  
3% v/v water. The compositions are useful to make improved pharmaceutical  
formulations. The invention also provides methods of intermittent dosing of steroid  
compounds such as analogs of 16 $\alpha$ -bromo-3 $\beta$ -hydroxy-5 $\alpha$ -androstan-17-one and  
10 compositions useful in such dosing regimens. The invention further provides  
compositions and methods to inhibit pathogen replication, ameliorate symptoms  
associated with immune dysregulation and to modulate immune responses in a  
subject using the compounds. The invention also provides methods to make and use  
these immunomodulatory compositions and formulations.

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03620433-032304